



DPF DOC SCR GFP TWC SUBSTRATE LIST

F-DIESEL Shanghai

**Add: Building 9, No.365, Lianyang Road, Songjiang District,
Shanghai, China 201613**

Tel: 0086-21-33506297

Fax: 0086-21-33506269

F-DIESEL Shenzhen

**Add: East of 5th floor, B-4 Bldg., East Industrial Zone, Overseas
Chinese Town, Nanshan District, Shenzhen, China 518053**

Tel: 0086-755-86106999

Fax: 0086-755-86106780

WebSite:

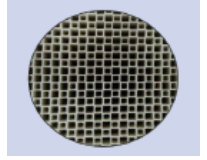
Group Web: <http://www.f-diesel.com>

Online Mail: <https://www.f-diesel.de>

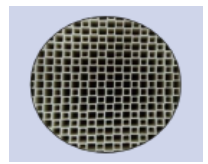
E-mail: jessica.chen@f-diesel.com

Mobile/Whatsapp: 0086 13801610850

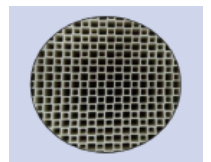
Disclaimer : F-DIESEL Group is in no way affiliated with CUMMINS, MERCEDES-BENZ, BMW, VOLVO, AUDI, CATERPILLAR, MAN, MWM, DEUTZ, NISSAN, BOSCH, DENSO, DELPHI, GARRETT, HOLSET, IHI, KKK, MITSUBISHI, SCHWITZER, TOYOTA, HELLA etc OEM manufacturers. All OEM manufacturers names, part numbers, symbols, drawing, colors and descriptions are for reference purposes only and it is not implied that any part used is the product of these manufacturers.



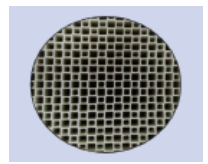
NO	TYPE	CELLS cpsi	DIAMETER [inch]	LENGHT [inch]	DIAMETER [mm]	LENGHT [mm]	VOLUME L/pc
1	D 5.66x3-300	300	5.66	3.0	143.8	76.2	1.236
2	D 5.66x4-300	300	5.66	4.0	143.8	101.6	1.648
3	D 5.66x5-300	300	5.66	5.0	143.8	127.0	2.061
4	D 5.66x6-300	300	5.66	6.0	143.8	152.4	2.473
5	D 6.77x3-300	300	6.77	3.0	172.0	76.2	1.769
6	D 6.77x4-300	300	6.77	4.0	172.0	101.6	2.358
7	D 6.77x5-300	300	6.77	5.0	172.0	127.0	2.948
8	D 6.77x6-300	300	6.77	6.0	172.0	152.4	3.538
9	D 7.5x3-300	300	7.50	3.0	190.5	76.2	2.171
10	D 7.5x4-300	300	7.50	4.0	190.5	101.6	2.894
11	D 7.5x6-300	300	7.50	6.0	190.5	152.4	4.342
12	D 7.5x7.5-300	300	7.50	7.5	190.5	190.5	5.427
13	D 9x6-300	300	9.00	6.0	228.6	152.4	6.252
14	D 9.5x4-300	300	9.50	4.0	241.3	101.6	4.644
15	D 9.5x4.5-300	300	9.50	4.5	241.3	114.3	5.224
16	D 9.5x5-300	300	9.50	5.0	241.3	127.0	5.805
17	D 9.5x6-300	300	9.50	6.0	241.3	152.4	6.966
18	D 9.5x7.5-300	300	9.50	7.5	241.3	190.5	8.707
19	D 10.5x4-300	300	10.50	4.0	266.7	101.6	5.673
20	D 10.5x4.5-300	300	10.50	4.5	266.7	114.3	6.382
21	D 10.5x5-300	300	10.50	5.0	266.7	127.0	7.091
22	D 10.5x6-300	300	10.50	6.0	266.7	152.4	8.509
23	D 10.5x7.5-300	300	10.50	7.5	266.7	190.5	10.637
24	D 11.25x3-300	300	11.25	3.0	285.8	76.2	4.884
25	D 11.25x4-300	300	11.25	4.0	285.8	101.6	6.512
26	D 11.25x4.5-300	300	11.25	4.5	285.8	114.3	7.326
27	D 11.25x5-300	300	11.25	5.0	285.8	127.0	8.140
28	D 11.25x6-300	300	11.25	6.0	285.8	152.4	9.768
29	D 13x4-300	300	13.00	4.0	330.2	101.6	8.696
30	D 13x6-300	300	13.00	6.0	330.2	152.4	13.044
38	D 13x7-300	300	13.00	7.0	330.2	177.8	15.218



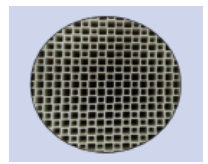
NO	TYPE	CELLS	DIAMETER	LENGHT	DIAMETER	LENGHT	VOLUME
		cpsi	[inch]	[inch]	[mm]	[mm]	L/pc
1	D 5.66x3-400	400	5.66	3.0	143.8	76.2	1.236
2	D 5.66x4-400	400	5.66	4.0	143.8	101.6	1.648
3	D 5.66x5-400	400	5.66	5.0	143.8	127.0	2.061
4	D 5.66x6-400	400	5.66	6.0	143.8	152.4	2.473
5	D 6.77x3-400	400	6.77	3.0	172.0	76.2	1.769
6	D 6.77x4-400	400	6.77	4.0	172.0	101.6	2.358
7	D 6.77x5-400	400	6.77	5.0	172.0	127.0	2.948
8	D 6.77x6-400	400	6.77	6.0	172.0	152.4	3.538
9	D 7.5x3-400	400	7.50	3.0	190.5	76.2	2.171
10	D 7.5x4-400	400	7.50	4.0	190.5	101.6	2.894
11	D 7.5x6-400	400	7.50	6.0	190.5	152.4	4.342
12	D 7.5x7.5-400	400	7.50	7.5	190.5	190.5	5.427
13	D 9x6-400	400	9.00	6.0	228.6	152.4	6.252
14	D 9.5x4-400	400	9.50	4.0	241.3	101.6	4.644
15	D 9.5x4.5-400	400	9.50	4.5	241.3	114.3	5.224
16	D 9.5x5-400	400	9.50	5.0	241.3	127.0	5.805
17	D 9.5x6-400	400	9.50	6.0	241.3	152.4	6.966
18	D 9x7.5-400	400	9.00	7.5	228.6	190.5	7.815
19	D 10.5x4-400	400	10.50	4.0	266.7	101.6	5.673
20	D 10.5x4.5-400	400	10.50	4.5	266.7	114.3	6.382
21	D 10.5x5-400	400	10.50	5.0	266.7	127.0	7.091
22	D 10.5x6-400	400	10.50	6.0	266.7	152.4	8.509
23	D 10.5x7-400	400	10.50	7.0	266.7	177.8	9.928
24	D 11.25x3-400	400	11.25	3.0	285.8	76.2	4.884
25	D 11.25x4-400	400	11.25	4.0	285.8	101.6	6.512
26	D 11.25x4.5-400	400	11.25	4.5	285.8	114.3	7.326
27	D 11.25x5-400	400	11.25	5.0	285.8	127.0	8.140
28	D 11.25x6-400	400	11.25	6.0	285.8	152.4	9.768
29	D 12x3-400	400	12.00	3.0	304.8	76.2	5.557
30	D 12x4-400	400	12.00	4.0	304.8	101.6	7.410
31	D 12x4.5-400	400	12.00	4.5	304.8	114.3	8.336
32	D 12x5-400	400	12.00	5.0	304.8	127.0	9.262
33	D 12x6-400	400	12.00	6.0	304.8	152.4	11.114
34	D 13x4.5-400	400	13.00	4.5	330.2	114.3	9.783



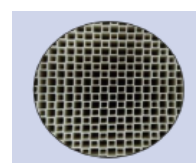
NO	TYPE	CELLS	DIAMETER	LENGHT	DIAMETER	LENGHT	VOLUME
		cpai	[inch]	[inch]	[mm]	[mm]	L/pc
35	D 13x5-400	400	13.00	5.0	330.2	127.0	10.870
36	D 13x6-400	400	13.00	6.0	330.2	152.4	13.044



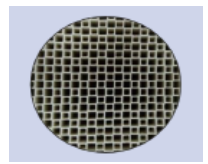
NO	TYPE	CELLS	DIAMETER	LENGHT	DIAMETER	LENGHT	VOLUME
		cpsi	[inch]	[inch]	[mm]	[mm]	L/pc
1	D 5.66x3-400	400	5.66	3.0	143.8	76.2	1.236
2	D 5.66x4-400	400	5.66	4.0	143.8	101.6	1.648
3	D 5.66x5-400	400	5.66	5.0	143.8	127.0	2.061
4	D 5.66x6-400	400	5.66	6.0	143.8	152.4	2.473
5	D 6.77x3-400	400	6.77	3.0	172.0	76.2	1.769
6	D 6.77x4-400	400	6.77	4.0	172.0	101.6	2.358
7	D 6.77x5-400	400	6.77	5.0	172.0	127.0	2.948
8	D 6.77x6-400	400	6.77	6.0	172.0	152.4	3.538
9	D 7.5x3-400	400	7.50	3.0	190.5	76.2	2.171
10	D 7.5x4-400	400	7.50	4.0	190.5	101.6	2.894
11	D 7.5x6-400	400	7.50	6.0	190.5	152.4	4.342
12	D 7.5x7.5-400	400	7.50	7.5	190.5	190.5	5.427
13	D 9x6-400	400	9.00	6.0	228.6	152.4	6.252
14	D 9.5x4-400	400	9.50	4.0	241.3	101.6	4.644
15	D 9.5x4.5-400	400	9.50	4.5	241.3	114.3	5.224
16	D 9.5x5-400	400	9.50	5.0	241.3	127.0	5.805
17	D 9.5x6-400	400	9.50	6.0	241.3	152.4	6.966
18	D 9x7.5-400	400	9.00	7.5	228.6	190.5	7.815
19	D 10.5x4-400	400	10.50	4.0	266.7	101.6	5.673
20	D 10.5x4.5-400	400	10.50	4.5	266.7	114.3	6.382
21	D 10.5x5-400	400	10.50	5.0	266.7	127.0	7.091
22	D 10.5x6-400	400	10.50	6.0	266.7	152.4	8.509
23	D 10.5x7-400	400	10.50	7.0	266.7	177.8	9.928
24	D 10.5x8-400	400	10.50	8.0	266.7	203.2	11.346
25	D 11.25x4-400	400	11.25	4.0	285.8	101.6	6.512
26	D 11.25x4.5-400	400	11.25	4.5	285.8	114.3	7.326
27	D 11.25x5-400	400	11.25	5.0	285.8	127.0	8.140
28	D 11.25x6-400	400	11.25	6.0	285.8	152.4	9.768
29	D 11.25x7-400	400	11.25	7.0	285.8	177.8	11.397
30	D 12x4-400	400	12.00	4.0	304.8	101.6	7.410
31	D 12x4.5-400	400	12.00	4.5	304.8	114.3	8.336
32	D 12x5-400	400	12.00	5.0	304.8	127.0	9.262
33	D 12x6-400	400	12.00	6.0	304.8	152.4	11.114
34	D 12x7-400	400	12.00	7.0	304.8	177.8	12.967
35	D 13x4-400	400	13.00	4.0	330.2	101.6	8.696



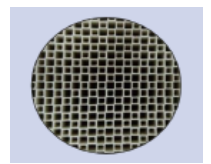
NO	TYPE	CELLS	DIAMETER	LENGHT	DIAMETER	LENGHT	VOLUME
		cpai	[inch]	[inch]	[mm]	[mm]	L/pc
36	D 13x4.5-400	400	13.00	4.5	330.2	114.3	9.783
37	D 13x5-400	400	13.00	5.0	330.2	127.0	10.870
38	D 13x6-400	400	13.00	6.0	330.2	152.4	13.044
39	D 13x7-400	400	13.00	7.0	330.2	177.8	15.218



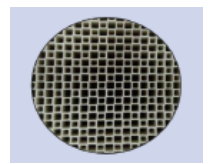
NO	TYPE	CELLS	DIAMETER	LENGHT	DIAMETER	LENGHT	VOLUME
		cpsi	[inch]	[inch]	[mm]	[mm]	L/pc
1	D 5.66x3-600	600	5.66	3.0	143.8	76.2	1.236
2	D 5.66x4-600	600	5.66	4.0	143.8	101.6	1.648
3	D 5.66x5-600	600	5.66	5.0	143.8	127.0	2.061
4	D 5.66x6-600	600	5.66	6.0	143.8	152.4	2.473
5	D 6.77x3-600	600	6.77	3.0	172.0	76.2	1.769
6	D 6.77x4-600	600	6.77	4.0	172.0	101.6	2.358
7	D 6.77x5-600	600	6.77	5.0	172.0	127.0	2.948
8	D 6.77x6-600	600	6.77	6.0	172.0	152.4	3.538
9	D 7.5x3-600	600	7.50	3.0	190.5	76.2	2.171
10	D 7.5x4-600	600	7.50	4.0	190.5	101.6	2.894
11	D 7.5x6-600	600	7.50	6.0	190.5	152.4	4.342
12	D 7.5x7.5-600	600	7.50	7.5	190.5	190.5	5.427
13	D 9x6-600	600	9.00	6.0	228.6	152.4	6.252
14	D 9.5x4-600	600	9.50	4.0	241.3	101.6	4.644
15	D 9.5x4.5-600	600	9.50	4.5	241.3	114.3	5.224
16	D 9.5x5-600	600	9.50	5.0	241.3	127.0	5.805
17	D 9.5x6-600	600	9.50	6.0	241.3	152.4	6.966
18	D 9.5x7.5-600	600	9.50	7.5	241.3	190.5	8.707
19	D 10.5x4-600	600	10.50	4.0	266.7	101.6	5.673
20	D 10.5x4.5-600	600	10.50	4.5	266.7	114.3	6.382
21	D 10.5x5-600	600	10.50	5.0	266.7	127.0	7.091
22	D 10.5x6-600	600	10.50	6.0	266.7	152.4	8.509
23	D 10.5x7-600	600	10.50	7.0	266.7	177.8	9.928
24	D 12x4-600	600	12.00	4.0	304.8	101.6	7.410
25	D 12x4.5-600	600	12.00	4.5	304.8	114.3	8.336
26	D 12x5-600	600	12.00	5.0	304.8	127.0	9.262
27	D 12x6-600	600	12.00	6.0	304.8	152.4	11.114
28	D 12x7-600	600	12.00	7.0	304.8	177.8	12.967
29	D 13x5-600	600	13.00	5.0	330.2	127.0	10.870
30	D 13x6-600	600	13.00	6.0	330.2	152.4	13.044
31	D 13x7-600	600	13.00	7.0	330.2	177.8	15.218



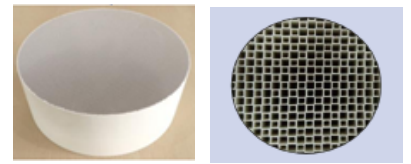
NO	TYPE	CELLS	DIAMETER	LENGHT	DIAMETER	LENGHT	VOLUME
		cpai	[inch]	[inch]	[mm]	[mm]	L/pc
1	D 5.66x6-200	200	5.66	6.0	143.8	152.4	2.473
2	D 5.66x7.2-200	200	5.66	7.2	143.8	182.9	2.967
3	D 6.7x8-200	200	6.70	8.0	170.2	203.2	4.620
4	D 7.5x6-200	200	7.50	6.0	190.5	152.4	4.342
5	D 7.5x8-200	200	7.50	8.0	190.5	203.2	5.789
6	D 7.5x10-200	200	7.50	10.0	190.5	254.0	7.236
7	D 9x6-200	200	9.00	6.0	228.6	152.4	6.252
8	D 9x7.5-200	200	9.00	7.5	228.6	190.5	7.815
9	D 9x8-200	200	9.00	8.0	228.6	203.2	8.336
10	D 9x9-200	200	9.00	9.0	228.6	228.6	9.378
11	D 9x10-200	200	9.00	10.0	228.6	254.0	10.420
12	D 9x11-200	200	9.00	11.0	228.6	279.4	11.462
13	D 9x12-200	200	9.00	12.0	228.6	304.8	12.504
14	D 9.1x9-200	200	9.10	9.0	231.1	228.6	9.587
15	D 9.5x6-200	200	9.50	6.0	241.3	152.4	6.966
16	D 9.5x8-200	200	9.50	8.0	241.3	203.2	9.288
17	D 9.5x10-200	200	9.50	10.0	241.3	254.0	11.610
18	D 10.5x6-200	200	10.50	6.0	266.7	152.4	8.509
19	D 10.5x8-200	200	10.50	8.0	266.7	203.2	11.346
20	D 10.5x9-200	200	10.50	9.0	266.7	228.6	12.764
21	D 10.5x10-200	200	10.50	10.0	266.7	254.0	14.182
22	D 10.5x11-200	200	10.50	11.0	266.7	279.4	15.601
23	D 10.5x12-200	200	10.50	12.0	266.7	304.8	17.019
24	D 11.25x8-200	200	11.25	8.0	285.8	203.2	13.025
25	D 11.25x9-200	200	11.25	9.0	285.8	228.6	14.653
26	D 11.25x10-200	200	11.25	10.0	285.8	254.0	16.281
27	D 11.25x12-200	200	11.25	12.0	285.8	304.8	19.537
28	D 12x8-200	200	12.00	8.0	304.8	203.2	14.819
29	D 12x10-200	200	12.00	10.0	304.8	254.0	18.524
30	D 12x11-200	200	12.00	11.0	304.8	279.4	20.376
31	D 12x12-200	200	12.00	12.0	304.8	304.8	22.229
32	D 13x10-200	200	13.00	10.0	330.2	254.0	21.740
33	D 13x12-200	200	13.00	12.0	330.2	304.8	26.088
34	D 13x15-200	200	13.00	15.0	330.2	381.0	32.610
35	D 13x17-200	200	13.00	17.0	330.2	431.8	36.958



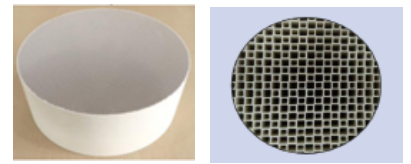
NO	TYPE	CELLS	DIAMETER	LENGHT	DIAMETER	LENGHT	VOLUME
		cpsi	[inch]	[inch]	[mm]	[mm]	L/pc
1	D 5.66x6-300	300	5.66	6.0	143.8	152.4	2.473
2	D 5.66x7.2-300	300	5.66	7.2	143.8	182.9	2.967
3	D 6.7x8-300	300	6.70	8.0	170.2	203.2	4.620
4	D 7.5x6-300	300	7.50	6.0	190.5	152.4	4.342
5	D 7.5x8-300	300	7.50	8.0	190.5	203.2	5.789
6	D 7.5x10-300	300	7.50	10.0	190.5	254.0	7.236
7	D 9x6-300	300	9.00	6.0	228.6	152.4	6.252
8	D 9x7.5-300	300	9.00	7.5	228.6	190.5	7.815
9	D 9x8-300	300	9.00	8.0	228.6	203.2	8.336
10	D 9x9-300	300	9.00	9.0	228.6	228.6	9.378
11	D 9x10-300	300	9.00	10.0	228.6	254.0	10.420
12	D 9x11-300	300	9.00	11.0	228.6	279.4	11.462
13	D 9x12-300	300	9.00	12.0	228.6	304.8	12.504
14	D 9.1x9-300	300	9.10	9.0	231.1	228.6	9.587
15	D 9.5x6-300	300	9.50	6.0	241.3	152.4	6.966
16	D 9.5x8-300	300	9.50	8.0	241.3	203.2	9.288
17	D 9.5x10-300	300	9.50	10.0	241.3	254.0	11.610
18	D 10.5x6-300	300	10.50	6.0	266.7	152.4	8.509
19	D 10.5x8-300	300	10.50	8.0	266.7	203.2	11.346
20	D 10.5x9-300	300	10.50	9.0	266.7	228.6	12.764
21	D 10.5x10-300	300	10.50	10.0	266.7	254.0	14.182
22	D 10.5x11-300	300	10.50	11.0	266.7	279.4	15.601
23	D 10.5x12-300	300	10.50	12.0	266.7	304.8	17.019
24	D 11.25x8-300	300	11.25	8.0	285.8	203.2	13.025
25	D 11.25x9-300	300	11.25	9.0	285.8	228.6	14.653
26	D 11.25x10-300	300	11.25	10.0	285.8	254.0	16.281
27	D 11.25x12-300	300	11.25	12.0	285.8	304.8	19.537
28	D 12x8-300	300	12.00	8.0	304.8	203.2	14.819
29	D 12x10-300	300	12.00	10.0	304.8	254.0	18.524
30	D 12x11-300	300	12.00	11.0	304.8	279.4	20.376
31	D 12x12-300	300	12.00	12.0	304.8	304.8	22.229
32	D 13x10-300	300	13.00	10.0	330.2	254.0	21.740
33	D 13x12-300	300	13.00	12.0	330.2	304.8	26.088
34	D 13x15-300	300	13.00	15.0	330.2	381.0	32.610
35	D 13x17-300	300	13.00	17.0	330.2	431.8	36.958



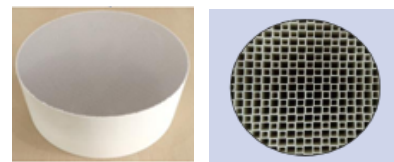
NO	TYPE	CELLS	DIAMETER	LENGHT	DIAMETER	LENGHT	VOLUME
		cpai	[inch]	[inch]	[mm]	[mm]	L/pc
1	D 5.66x6-300	300	5.66	6.0	143.8	152.4	2.473
2	D 5.66x7.2-300	300	5.66	7.2	143.8	182.9	2.967
3	D 6.7x8-300	300	6.70	8.0	170.2	203.2	4.620
4	D 7.5x6-300	300	7.50	6.0	190.5	152.4	4.342
5	D 7.5x8-300	300	7.50	8.0	190.5	203.2	5.789
6	D 7.5x10-300	300	7.50	10.0	190.5	254.0	7.236
7	D 9x6-300	300	9.00	6.0	228.6	152.4	6.252
8	D 9x7.5-300	300	9.00	7.5	228.6	190.5	7.815
9	D 9x8-300	300	9.00	8.0	228.6	203.2	8.336
10	D 9x9-300	300	9.00	9.0	228.6	228.6	9.378
11	D 9x10-300	300	9.00	10.0	228.6	254.0	10.420
12	D 9x11-300	300	9.00	11.0	228.6	279.4	11.462
13	D 9x12-300	300	9.00	12.0	228.6	304.8	12.504
14	D 9.1x9-300	300	9.10	9.0	231.1	228.6	9.587
15	D 9.5x6-300	300	9.50	6.0	241.3	152.4	6.966
16	D 9.5x8-300	300	9.50	8.0	241.3	203.2	9.288
17	D 9.5x10-300	300	9.50	10.0	241.3	254.0	11.610
18	D 10.5x6-300	300	10.50	6.0	266.7	152.4	8.509
19	D 10.5x8-300	300	10.50	8.0	266.7	203.2	11.346
20	D 10.5x9-300	300	10.50	9.0	266.7	228.6	12.764
21	D 10.5x10-300	300	10.50	10.0	266.7	254.0	14.182
22	D 10.5x11-300	300	10.50	11.0	266.7	279.4	15.601
23	D 10.5x12-300	300	10.50	12.0	266.7	304.8	17.019
24	D 11.25x8-300	300	11.25	8.0	285.8	203.2	13.025
25	D 11.25x9-300	300	11.25	9.0	285.8	228.6	14.653
26	D 11.25x10-300	300	11.25	10.0	285.8	254.0	16.281
27	D 11.25x12-300	300	11.25	12.0	285.8	304.8	19.537
28	D 12x8-300	300	12.00	8.0	304.8	203.2	14.819
29	D 12x10-300	300	12.00	10.0	304.8	254.0	18.524
30	D 12x11-300	300	12.00	11.0	304.8	279.4	20.376
31	D 12x12-300	300	12.00	12.0	304.8	304.8	22.229



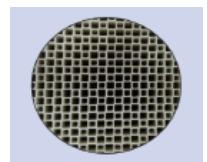
TEST ITEMS		UNIT	DPF 200-12	DPF 300-9
PHYSICAL PROPERTIES				
Diameter	D < 290	[mm]	±1.0	±1.0
	290 ≤ D < 350	[mm]	±1.2	±1.2
Length	L < 150	[mm]	±1.5	±1.5
	150 ≤ L ≤ 305	[mm]	±2.0	±2.0
	L > 305	[mm]	≤ L × 1.0%	≤ L × 1.0%
Parallelism	D ≤ 270	[mm]	≤ 1.0	≤ 1.0
	270 < D ≤ 290	[mm]	≤ 1.2	≤ 1.2
	290 < D ≤ 350	[mm]	≤ 1.5	≤ 1.5
Perpendicularity	L ≤ 100	[mm]	≤ 1.0	≤ 1.0
	L > 100	[mm]	≤ L × 1.0%	≤ L × 1.0%
Wall Thickness		[mm]	0.305 ± 0.033	0.241 ± 0.025
Cell density		cps	200 ± 10%	300 ± 10%
Coefficient of Thermal Exp.(40-800°C)		× 10 ⁻⁶ /K	≤ 1.25	≤ 0.7
Water Absorption		%	≥ 30	≥ 30
Apparent Porosity		%	55 ± 3	55 ± 3
Total Pore Volume		cm ³ /g	0.5-0.73	0.45-0.68
Mean Pore Size		[mm]	14-24	14-20
Softening Temperature		[°C]	1300	1300
Compressive Strength	A-xial	[MPa]	≥ 5.0	≥ 3.0
	B-xial	[MPa]	≥ 1.0	≥ 0.3
Isostatic Strength		[MPa]	≥ 1.03	≥ 1.03
Thermal Shock Resistance		°C	550°C/three times	650°C/three times
Crystalline Phase	Cordierite	%	≥ 95	≥ 95
	Others		≤ 5	≤ 5
CHEMICAL PROPERTIES				
SiO ₂		%	50 ± 2.5	50 ± 2.5
Al ₂ O ₃		%	35.2 ± 2.5	35.2 ± 2.5
MgO		%	13.5 ± 2.0	13.5 ± 2.0
Fe ₂ O ₃		%	≤ 1.0	≤ 1.0
TiO ₂		%	≤ 1.0	≤ 1.0
CaO		%	≤ 0.8	≤ 0.8
Na ₂ O + K ₂ O		%	≤ 1.4	≤ 1.4



TEST ITEMS		UNIT	SCR/DOC 300-5	SCR/DOC 400-5	DOC 400-4	SCR600-3
PHYSICAL PROPERTIES						
Diameter	D<290	[mm]	±1.0	±1.0	±1.0	±1.0
	290≤D<350	[mm]	±1.2	±1.2	±1.2	±1.2
Length	L<150	[mm]	±1.5	±1.5	±1.5	±1.5
	L≥150	[mm]	±2.0	±2.0	±2.0	±2.0
Parallelism	D≤270	[mm]	≤1.0	≤1.0	≤1.0	≤1.0
	270<D≤290	[mm]	≤1.2	≤1.2	≤1.2	≤1.2
	290<D≤350	[mm]	≤1.5	≤1.5	≤1.5	≤1.5
Perpendicularity	L≤100	[mm]	≤1.0	≤1.0	≤1.0	≤1.0
	L>100	[mm]	≤Lx1.0%	≤Lx1.0%	≤Lx1.0%	≤Lx1.0%
Wall Thickness		[mm]	0.141±0.025	0.141±0.025	0.114±0.025	0.089±0.025
Cell density		cpsi	300±10%	400±10%	400±10%	600±10%
Coefficient of Thermal Exp.(40-800°C)		x10 ⁻⁶ /K	≤1.25	≤1.25	≤0.8	≤0.8
Water Absorption		%	20-28 range≤4	20-28 range≤4	20-28 range≤4	20-28 range≤4
Softening Temperature		[°C]	1300	1300	1300	1300
Bulk Density		g/cm ³	<0.65	<0.65	<0.65	<0.65
Compressive Strength	A-xial	[MPa]	≥5.0	≥5.0	≥5.0	≥5.0
	B-xial	[MPa]	≥1.0	≥1.0	≥1.0	≥1.0
Isostatic Strength		[MPa]	≥1.03	≥1.03	≥1.5	≥1.03
Thermal Shock Resistance			550°C/three times	550°C/three times	650°C/three times	650°C/three times
Crystalline Phase	Cordierite	%	≥95	≥95	≥95	≥95
	Others		≤5	≤5	≤5	≤5
CHEMICAL PROPERTIES						
SiO ₂		%	50±2.5	50±2.5	50±2.5	50±2.5
Al ₂ O ₃		%	35.2±2.5	35.2±2.5	35.2±2.5	35.2±2.5
MgO		%	13.5±2.0	13.5±2.0	13.5±2.0	13.5±2.0
Fe ₂ O ₃		%	≤1.0	≤1.0	≤1.0	≤1.0
TiO ₂		%	≤1.0	≤1.0	≤1.0	≤1.0
CaO		%	≤0.8	≤0.8	≤0.8	≤0.8
Na ₂ O+ K ₂ O		%	≤1.4	≤1.4	≤1.4	≤1.4



TEST ITEMS		UNIT	GPF 300-8
PHYSICAL PROPERTIES			
Diameter	D < 100	[mm]	±1.0
	100 ≤ D ≤ 143.8	[mm]	±1.2
Length	L < 100	[mm]	±1.5
	L ≥ 100	[mm]	±2.0
Parallelism	100 ≤ D ≤ 143.8	[mm]	≤ 1.0
	D < 100	[mm]	≤ 1.2
Perpendicularity	L < 100	[mm]	≤ 1.0
	L ≥ 100	[mm]	≤ L × 1.0%
Wall Thickness		[mm]	0.216 ± 0.025
Cell density		cpsi	300 ± 10%
Coefficient of Thermal Exp.(40-800°C)		× 10 ⁻⁶ /K	≤ 0.8
Water Absorption		%	≥ 45
Apparent Porosity		%	62 ± 3
Total Pore Volume		cm ³ /g	0.62-0.85
Mean Pore Size		[mm]	14-20
Softening Temperature		[°C]	1300
Compressive Strength	A-xial	[MPa]	≥ 1.5
	B-xial	[MPa]	≥ 0.15
Isostatic Strength		[MPa]	≥ 1.03
Thermal Shock Resistance		°C	650°C/three times
Crystalline Phase	Cordierite	%	≥ 95
	Others		≤ 5
CHEMICAL PROPERTIES			
SiO ₂		%	50 ± 2.5
Al ₂ O ₃		%	35.2 ± 2.5
MgO		%	13.5 ± 2.0
Fe ₂ O ₃		%	≤ 1.0
TiO ₂		%	≤ 1.0
CaO		%	≤ 0.8
Na ₂ O + K ₂ O		%	≤ 1.4



TEST ITEMS		UNIT	TWC 400-4	TWC 600-3
PHYSICAL PROPERTIES				
Diameter	D < 100	[mm]	±1.0	±1.0
	100 ≤ D ≤ 143.8	[mm]	±1.2	±1.2
Length	L < 100	[mm]	±1.5	±1.5
	L ≥ 100	[mm]	±2.0	±2.0
Parallelism	D < 100	[mm]	≤1.0	≤1.0
	100 ≤ D ≤ 143.8	[mm]	≤1.2	≤1.2
Perpendicularity	L < 100	[mm]	≤1.0	≤1.0
	L ≥ 100	[mm]	≤Lx1.0%	≤Lx1.0%
Wall Thickness		[mm]	0.114±0.025	0.089±0.025
Cell density		cpsi	400±10%	600±10%
Coefficient of Thermal Exp.(40-800°C)		x10 ⁻⁶ /K	≤0.8	≤0.8
Water Absorption		%	20-28 range≤4	20-28 range≤4
Softening Temperature		[°C]	1300	1300
Bulk Density		g/cm ³	<0.65	<0.65
Compressive Strength	A-xial	[MPa]	≥5.0	≥5.0
	B-xial	[MPa]	≥1.0	≥1.0
Isostatic Strength		[MPa]	≥1.5	≥1.03
Thermal Shock Resistance			700°C/three times	700°C/three times
Crystalline Phase	Cordierite	%	≥95	≥95
	Others		≤5	≤5
CHEMICAL PROPERTIES				
SiO ₂		%	50±2.5	50±2.5
Al ₂ O ₃		%	35.2±2.5	35.2±2.5
MgO		%	13.5±2.0	13.5±2.0
Fe ₂ O ₃		%	≤1.0	≤1.0
TiO ₂		%	≤1.0	≤1.0
CaO		%	≤0.8	≤0.8
Na ₂ O+ K ₂ O		%	≤1.4	≤1.4